

## Method and System for Restoring Coincident Line and Facility Failures

### *Abstract*

5 The system and method of the present invention provide restoration of coincident line and facility failures. The system of the present invention includes light termination equipment (LTE) that is capable of detecting failures, determining the type of component that failed, determining which restoration facility to use based on the type of component that failed, and providing restoration. The system of the present invention also includes spare capacity for 10 restoration, including protect channels and an optical restoration network. In addition, the system of the present invention includes an optical cross connect switch (OCCS) that is capable of switching electrical signals to the optical restoration network. The method of the present invention is involves detecting a failure, determining the type of component that failed, and sending an alarm to 15 a centralized management center.

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